

SECTION 112 – MASONRY WORK

1. MASONRY MATERIALS

All brick for facing shall be Grade SW, Type FBX, or better conforming to requirements of ASTM Standard C216. All brick for facing shall be Modular 7-5/8" X 2-1/4" X 3-5/8". Color and texture of brick shall match existing color texture and blend of brick installed in the perimeter walls of the existing fountain. Sample of proposed brick shall be submitted for approval and shall be approved prior to ordering brick. Copies of absorption test results from a recognized testing laboratory shall be furnished after completion of tests on brick to be furnished. Absorption tests shall be performed in accordance with ASTM Designation C67.

2. HANDLING AND STORAGE

Care shall be exercised in handling masonry materials to avoid chipping and breakage. Materials shall be stacked under cover or otherwise protected from exposure to weather immediately upon delivery.

3. MORTAR MATERIALS

A. Portlant Cement. Type I, II or III conforming to ASTM Standard C150 (color to match mortar in existing walls of the fountain).

B. Lime. Lime shall conform to ASTM Standard C207, 92% minimum hydrated.

C. Sand. Clean, sharp, 100 percent passing No. 8 square mesh sieve and not more than 35 percent passing No. 50 Sieve conforming to ASTM Standard C144.

D. Masonry Cement. Type II conforming to ASTM Standard C91.

E. Water. Clean and free of deleterious materials which would adversely affect mortar.

F. Waterproofing Admixtures. Master Builders "Omicron", Grace Construction Materials, "Hydratite Plus", or equal.

4. MORTAR MIXES

Mortar shall conform to ASTM Standard C270 for Type N, 750 psi minimum strength. Mortar shall be mixed in following proportions by volume; one part Portland cement, one part hydrated lime or lime putty and six parts sand; or one part masonry cement and three parts sand. Waterproofing admixture shall be added to all mortar used in exterior walls.

5. LAYING MASONRY

Masonry units shall be laid immediately after spreading mortar. Each masonry unit shall be shoved into a full bed of unfurrowed mortar with all joints completely filled, leaving no voids. Joints shall be uniform, 3/8 to 1/2 inch in width, tooled concave where exposed to match existing masonry work. Masonry units shall be laid to match existing bond unless otherwise shown on drawings and shall not be moved after laying.

Masonry shall be plumb and true to line, matching existing masonry work, racked back to insure proper connection with following work. All metal work shall be built in as work progresses and suitable recesses provided for built in work and installation of equipment and fixtures. 1/4 inch diameter weep holes shall be provided at not more than 32 inches on center along top of flashing projections. All masonry shall be reinforced at 16 inches on center vertically with standard "Block-Mesh", "Dur-O-Wall" or equal reinforcement. Reinforcement shall be approximately 2 inches less in width than width of entire wall. All joint reinforcement shall be furnished in flat sections 10 feet or more in length with special prefabricated shaped provided for all corners and wall intersections. Masonry shall not be laid at temperatures below 40 degrees F. without adequate protection measures for cold weather work approved. Upon completion, all masonry work shall be cleaned down using bristle brushes and clean water, soap or cleaning compounds and washed down with clean water until free of mortar stains and traces of cleaning compounds. Cleaning methods and materials shall be tested on sample panels a minimum of 24 hours prior to starting cleaning operations to determine if discolorations results.